



## Safety & Mission Assurance

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**1**

# STS-113/11A

## Flight Readiness Review



## Safety & Mission Assurance

Presenter **M. D. Erminger**

Date **October 31, 2002** Page **2**

# Approach and General Description

**S&MA held reviews in preparation for the STS-113/11A Flight Readiness Review on 16 October, and 29 October 2002 and is ready to proceed toward launch countdown.**

## FRR Briefing Overview

- **Significant assessments - *discuss***
- **Special topics**
  - **NASA Safety Reporting System (NSRS) - *discuss***
  - **Space Shuttle Hazard Analysis - *discuss***
  - **Space Shuttle FMEA/CIL – *discuss***
- Significant Open work - *none*
- CoFR Exceptions - *none*
- Open Action Items - *none*



## **Safety & Mission Assurance**

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**3**

# **Significant Assessments**

## **Space Station**

- **STS-112/9A SSRMS Close Proximity Event**
- **9A Spool Positioning Device Configuration Problem**

## **Orbiter**

- **STS-112 System A Pyros Failed to Fire at Liftoff**
- **Salad Bowl Damage**

## **RSRM**

- **RH Nozzle Nose Cap Missed X-Ray Inspection**

***ADDITIONAL ASSESSED ITEMS ARE IN THE BACKUP CHARTS***



## Safety & Mission Assurance

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**4**

# Significant Assessments

## ET

- Intertank Stringer Issue
- STS-112 Bipod Ramp Foam Loss

## KSC

- STS-112 System A Pyros Failed to Fire at Liftoff

***ADDITIONAL ASSESSED ITEMS ARE IN THE BACKUP CHARTS***



## Safety & Mission Assurance

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**5**

## NSRS Summary

**There are no NASA Safety Reporting System reports open that are applicable to STS-113/11A.**

## Hazard Analysis Summary

**There are no new Accepted Risk hazards identified for STS-113/11A.**

## FMEA/CIL Summary

**There are no new Criticality 1 failure modes identified for STS-113/11A.**



## Safety & Mission Assurance

Presenter **M. D. Erminger**

Date **October 31, 2002** Page **6**

# **STS-113/11A Readiness Statement**

With the satisfactory completion of identified open work, Safety and Mission Assurance has no constraints to STS-113/11A. S&MA has no issues that constrain any of the mission success criteria.

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Director, KSC Safety, Health  
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/s/ Amanda Goodson  
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## Safety & Mission Assurance

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**7**

# STS-113/11A

## Flight Readiness Review

### Backup Package



## Safety & Mission Assurance

Presenter

**M. D. Erminger**

Date

**October 31, 2002**

Page

**8**

# Additional Assessments

## Space Station

- CBM Contamination

## Orbiter/GFE

- MPM Negative Margins
- IMU Slip Ring Problem
- OV-105 Exceedance of OMDP Interval Requirements
- Dryden GSE Oil Contamination
- STS-112/9A Comm Problems through the ISS Docked C Interface Unit

## External Tank

- LO2 Feedline Repair Using BX-265

## RSRM

- Flex Bearing Temperature Sensor Anomaly





## Safety & Mission Assurance

Presenter **M. D. Erminger**

Date **October 31, 2002**

Page **9**

# Additional Assessments

## SRB

- SRB Nose Cone Heat Treat Alert

## KSC

- Crawler Transporter #1 Repair
- Dryden GSE Oil Contamination

## Independent Assessment

- High Utilization of EXT MDMs
- Thermal Radiator ORU Deployment
- Structural Evaluation of Boeing Structural Analysis and Static Load Testing for the S1/P1 Integrated Truss Segments (ITS's)